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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q85151

Makoto SAKAGAMI, et al.

Appln. No.: National Stage Entry of PCT/JP03/06014

Confirmation No.: not yet assigned

Group Art Unit: not yet assigned

Filed: December 06, 2004

Examiner: not yet assigned

For: NUMERICAL CONTROL APPARATUS

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under § 1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of a Communication from a

INFORMATION DISCLOSURE STATEMENT  
Attorney Docket No. Q85151  
National Stage Entry of PCT/JP03/06014

foreign patent office in a counterpart application citing such documents, together with an English-language version (if not already included) of at least that portion of the Communication indicating the degree of relevance found by the foreign patent office.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant submits the following explanations: English language abstracts, submitted herewith, constitute concise statement of relevance for JP-A- Nos. 05-123939 and 09-155676.

JP-A- No. 8-118213 discloses grinding a taper surface by holding a wheel on a diagonally traveling table which enables an adjustment of an angle of gradient and oscillating one axis.

JP-A-No. 7-334223 discloses a tool spindle attitude control system which works while inclining a tool to an arbitrary direction with respect to a work.

JP-A-No. 6-342304 discloses an oscillation grinding command which enables oscillation grinding for an optical shape.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

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CUSTOMER NUMBER

Date: December 6, 2004

Respectfully submitted,

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CONCISE STATEMENT OF RELEVANCY  
BETWEEN THE INVENTION AND MATERIALS

1 JP-A-8-7782/3

This publication discloses grinding a taper surface by holding a wheel on a diagonally traveling table which enables an adjustment of an angle of gradient and oscillating one axis

2 JP-A-7-334223

This publication discloses a tool spindle attitude control system which works while inclining a tool to an arbitrarily direction with respect to a work.

3 JP-A-6-342304

This publication discloses that an oscillation grinding command which enables oscillation grinding for an optical shape.

Substitute for Form 1449 A & B/PTO  <b><u>INFORMATION DISCLOSURE</u></b> <b><u>STATEMENT BY APPLICANT</u></b>  <i>(use as many sheets as necessary)</i>				Cite if Known	
				Application Number	National Stage Entry of
				Confirmation Number	PCT/JP03/06014
				Filing Date	Not yet assigned
				First Named Inventor	December 06, 2004
				Art Unit	Makoto SAKAGAMI
Examiner Name	Not yet assigned				
Attorney Docket Number	Q85151				
Sheet	1	of	1		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US			
		US			
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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		JP	05-123939	A	5/21/1993	WAIDA SEISAKUSHO: KK CITIZEN WATCH CO LTD N S T :KK	Abstract
		JP	09-155676	A	6/17/1997	MITSUI SEIKI KOGYO CO LTD	Abstract
		JP	8-118213	A	5/14/1996		
		JP	7-334223	A	12/22/1995		
		JP	6-342304	A	12/13/1994		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.